

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. SMITH 1265.0

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) [Signature]  
 R.P.E. 5404 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE 8-22 19 80  
 OPERATOR'S WELL NO. 1 (Rev)  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0832 REV.-  
 STATE COUNTY PERMIT  
Frac.

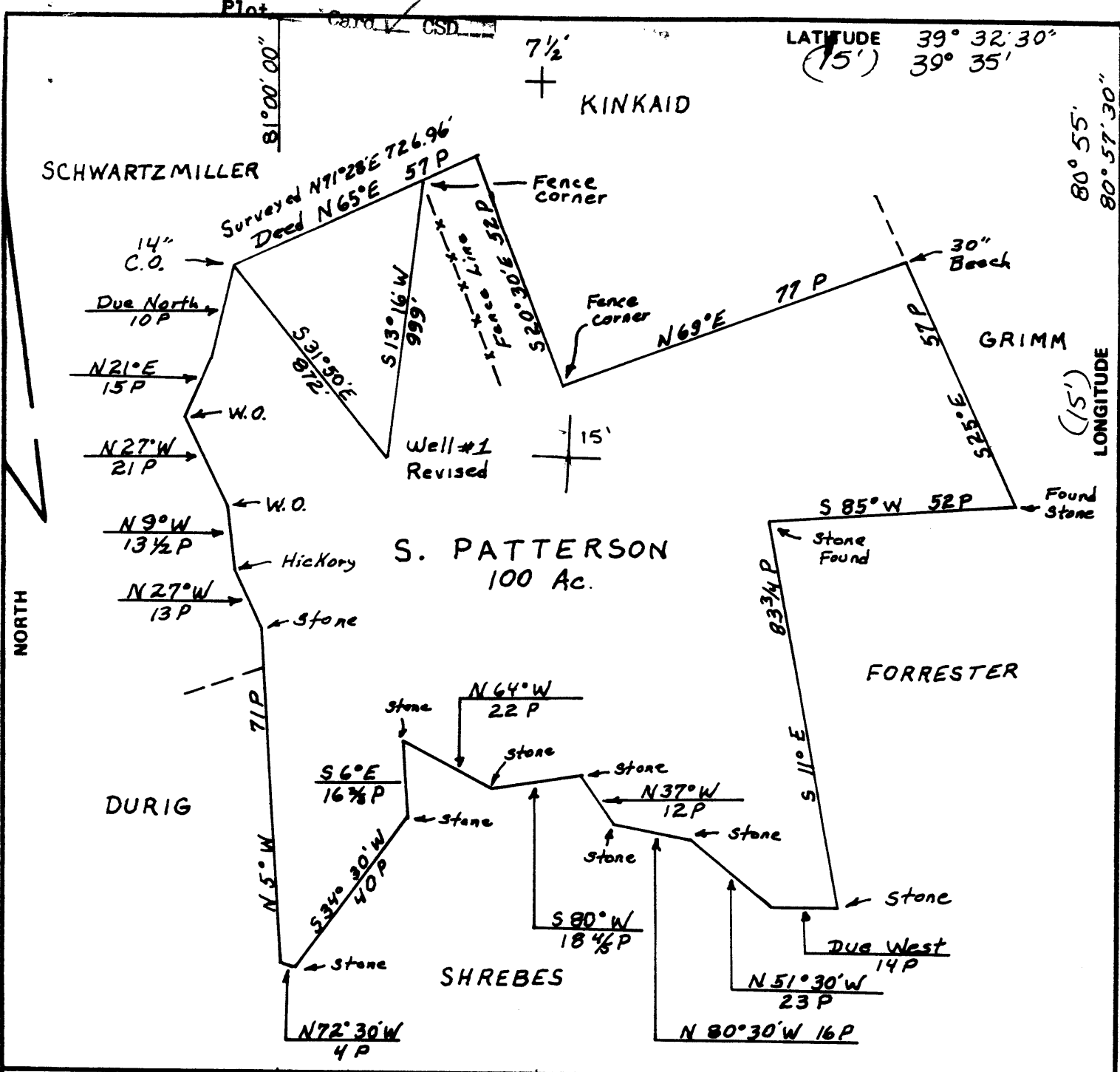
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1152.0 WATER SHED PURSLEY CREEK  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 7 1/2' NEW MARTINSVILLE 15'  
 SURFACE OWNER STANLEY B. PATTERSON ACREAGE 100 AC.  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 100 AC.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500'  
 WELL OPERATOR James F. Doan DESIGNATED AGENT James F. Doan  
 ADDRESS Po Box 31 Middlebourne W. Va. 26149 ADDRESS Po Box 31 Middlebourne, W. Va. 26149

MAY 20 1985

4100' Devonian Shale WWD-6-0 Sistersville (28)



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. SMITH 1265.0

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) W. F. Woodburn  
 R.P.E. 5404 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



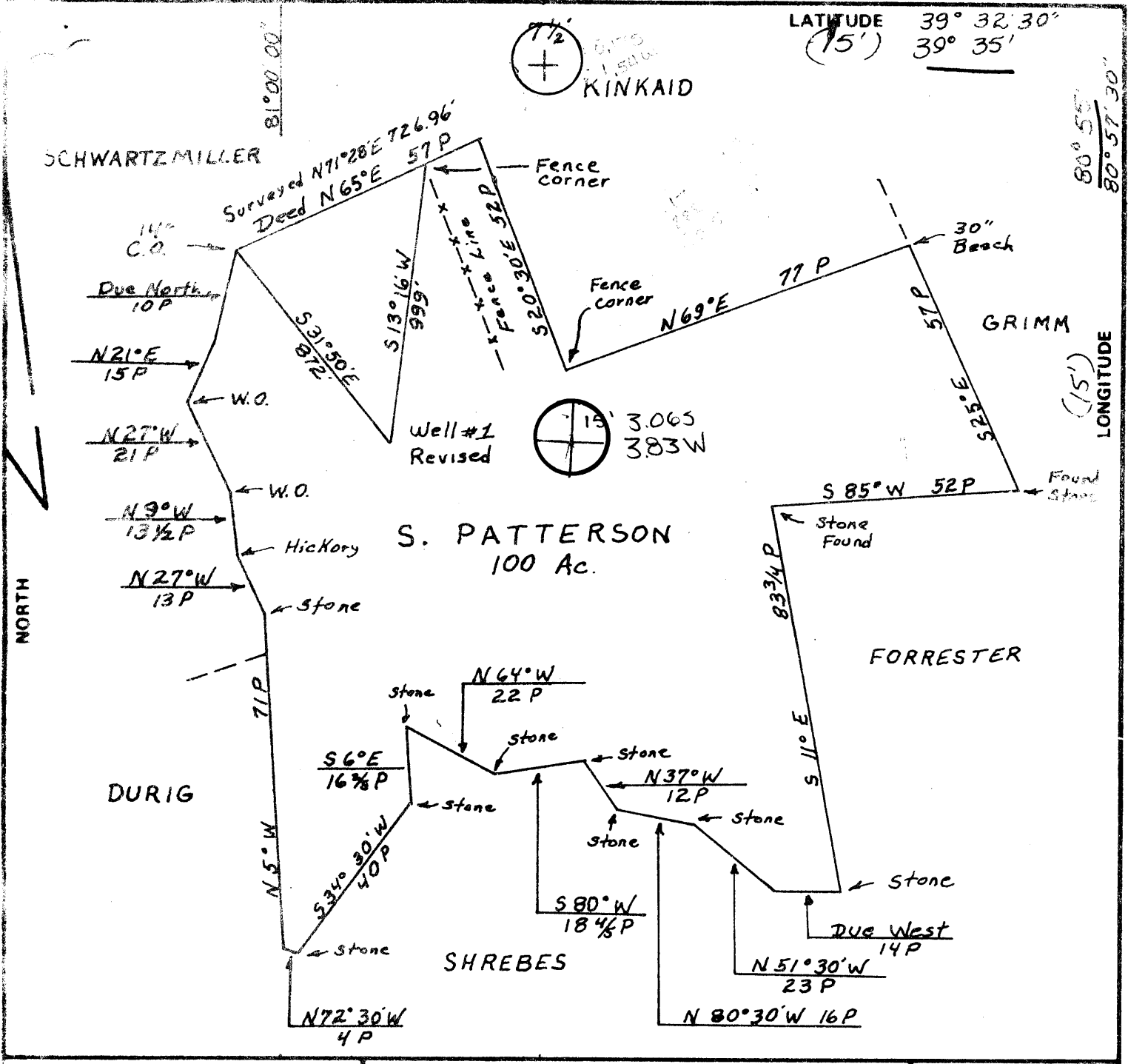
DATE 8-22 19 80  
 OPERATOR'S WELL NO. 1 (Rev)  
 API WELL NO. 47-095-0832 REV-1  
 STATE \_\_\_\_\_ COUNTY \_\_\_\_\_ PERMIT \_\_\_\_\_

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1152.0 WATER SHED PURSLEY CREEK  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 7 1/2 NEW MARTINSVILLE 15'  
 SURFACE OWNER STANLEY R. PATTERSON ACREAGE 100 AC  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 100 AC.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500' AUG 15 1983  
 WELL OPERATOR S+R Oil Corp. DESIGNATED AGENT James F. Dorn  
 ADDRESS Po Box 331 ADDRESS Po Box 31  
Bethany Beach - Delaware 19930 Middlebourne, W. Va 26149

4100' Devonian Shale



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. SMITH 1265.0

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ L.L.S. \_\_\_\_\_

PLACE SEAL HERE

WELL DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE 8-2-80 19 80  
 OPERATOR'S WELL NO. 1 (REV)  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0832 REV.  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1152.0 WATER SHED PURSLEY CREEK  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 7 1/2' NEW MARTINSVILLE 15'SW  
 SURFACE OWNER STANLEY R. PATTERSON ACREAGE 100 AC.  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 100 AC.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500' 6-0 Sistersville (28)  
 WELL OPERATOR J.M. Tidwell & Co. DESIGNATED AGENT Richard Nudern  
 ADDRESS #1 Box 8 - Marietta, Ohio ADDRESS Lebanon, WV  
1-614-373-2221 1-304-477-7808

SEP 9 1980



WR-35

RECEIVED  
NOV 26 1986

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY  
Oil and Gas Division

Date Nov. 19, 1986  
Operator's  
Well No. Patterson #1  
Farm Stanley Patterson  
API No. 47-095-0832F

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas XX / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1183' Watershed Pursley Creek  
District: Lincoln County Tyler Quadrangle Paden City

COMPANY James F. Doan  
ADDRESS Rt 1, Box 141A, Middlebourne, WV  
DESIGNATED AGENT Same  
ADDRESS \_\_\_\_\_  
SURFACE OWNER Dr. Stanley Patterson  
ADDRESS Sistersville, WV  
MINERAL RIGHTS OWNER Same  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
B. Lowther ADDRESS Middlebourne, WV  
PERMIT ISSUED Feb. 16, 1985  
DRILLING COMMENCED 5/16/86  
DRILLING COMPLETED 5/17/86  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	263	263	to surf.
7			
5 1/2			
4 1/2		3677	225 Sk.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2950 feet  
Depth of completed well 3677 feet Rotary \_\_\_ / Cable Tools \_\_\_  
Water strata depth: Fresh \_\_\_ feet; Salt \_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2943-2947 feet  
Gas: Initial open flow 5 Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow 2 Mcf/d Final open flow None Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 820# psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation k None Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DEC 1 1986 (Continue on reverse side)

Rec # 3244

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> Including indication of all fresh and salt water, coal, oil and gas
Formations Listed on Prior Report					

(Attach separate sheets as necessary)

James R. Doan  
Well Operator  
By: James R. Doan  
Date: Nov. 19, 1986

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



IV-35  
(Rev 8-81)

Date July 11 1983  
Operator's  
Well No. SR4  
Farm Stanley Patterson #1  
API No. 47 - 095 - 0832

State of West Virginia  
Department of Mines  
Oil and Gas Division

AUG 08 1983

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production     / Underground Storage     / Deep     / Shallow     /)

LOCATION: Elevation: 1183 Watershed Pursley Creek  
District: Lincoln County Tyler Quadrangle Paden City

COMPANY S & R OIL CORPORATION  
ADDRESS P.O. BOX 31, Middlebourne, W. Va.  
DESIGNATED AGENT James F. Doan  
ADDRESS s Middlebourne, W. Va.  
SURFACE OWNER Dr. Stanley Patterson  
ADDRESS Sistersville, W. Va.  
MINERAL RIGHTS OWNER Same  
ADDRESS      
OIL AND GAS INSPECTOR FOR THIS WORK      
B. Lowther ADDRESS Middlebourne, W. Va.  
PERMIT ISSUED July 1980  
DRILLING COMMENCED 8-20-80  
DRILLING COMPLETED 8-27-80  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON    

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	263'	263'	to surface
7			
5 1/2			
4 1/2	3677'	3677'	225 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Warren - Devonian Depth 4100' feet  
Deepen to 4100'  
Depth of completed well 3677' feet Rotary     / Cable tools      
Presently 3677' deep  
Water strata depth: Fresh     feet; Salt     feet  
Coal seam depths: N/A Is coal being mined in the area?    

OPEN FLOW DATA

Producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in  
(If applicable due to multiple completion--)  
Second producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d Oil: Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

This well has not been treated in any zone, this report filed with application to deepen the well.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
			1866	1950	
Big Lime			1950	2098	
Big Injun			2098	2144	
Squaw			2388	2467	
Weir			2456	2462	
Berea			2780	2794	
39'			2933	2956	
Gordon			3540	3589	
Warren					

(Attach separate sheets as necessary)

S & R OIL CORPORATION

Well Operator

By: JAMES F. DOAN

Date: JULY 11, 1983

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

AUG 15 1980

OIL AND GAS WELL PERMIT APPLICATION OF MINES

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE August 14, 1980  
Company L & M Petroleum Co.  
Address Rt. #1, Box 18-B, Marietta, OH  
Farm Stanley Patterson Acres 100  
Location (waters) Pursley Creek  
Well No. 1 Elevation 1183.0  
District Lincoln County Tyler  
Quadrangle Paden City

Surface Owner Stanley R. Patterson  
Address 999McCoy Ave., Sistersville, WV  
Mineral Owner SAME  
Address \_\_\_\_\_  
Coal Owner SAME  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

~~THIS PERMIT MUST BE POSTED AT THE WELL SITE~~

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 4-20-81.

INSPECTOR  
TO BE NOTIFIED Phil Tracy  
ADDRESS 758-4573  
PHONE \_\_\_\_\_

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Jan. 7 1980 by Stanley & Dorothea Patterson made to Loren Bagley and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Tyler County, Book 223 Page 106  
 NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours, L & M Petroleum, Co.  
(Sign Name) [Signature] Well Operator  
Rt. #1, Box 18-B  
Street  
Marietta  
City or Town  
Ohio 45750  
State

BLANKET BOND

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-095-0832 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_



**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO   X   DRILL            DEEPEN            FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT:  
 NAME \_\_\_\_\_ NAME   Richard Hudson    
 ADDRESS \_\_\_\_\_ ADDRESS   Parkersburg, WV 26101    
 TELEPHONE \_\_\_\_\_ TELEPHONE   304-422-7208    
 ESTIMATED DEPTH OF COMPLETED WELL:   4500'   ROTARY   X   CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:   Devonian Shale    
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB.   X   STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT TIE UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250'	250'	Surface
7			
5 1/2			
4 1/2	TD	TD	400 sx
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS   500   FEET   1500   SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA?   No   BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

RECEIVED  
MAY 06 1985



1) Date: February 16, 1985  
 2) Operator's Patterson #1  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 095 0832 F  
 State County Permit

**COAL & GAS DIVISION  
 DEPT. OF MINES**

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT**

4) WELL TYPE: A Oil XXX / Gas XXX /  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)  
 5) LOCATION: Elevation: 1183' Watershed: Pursley Creek  
 District: Lincoln County: Tyler Quadrangle: Paden City  
 6) WELL OPERATOR James F. Doan 7) DESIGNATED AGENT James F. Doan  
 Address Rt. 1, Box 141 A Address Same  
Middlebourne, W. Va. 26045  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Robert Lowther Name \_\_\_\_\_  
 Address Middlebourne, W. Va Address \_\_\_\_\_

10) PROPOSED WELL WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate X  
 Plug off old formation \_\_\_\_\_ / Perforate new formation xxx and fracture  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Gordon  
 12) Estimated depth of completed well, 2950' feet  
 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>8 5/8</u>						<u>263'</u>	<u>To surface</u>	
Coal									Sizes
Intermediate									
Production	<u>4 1/2</u>						<u>3677'</u>	<u>225 Sacks</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

**OFFICE USE ONLY  
 DRILLING PERMIT**

Permit number 47-095-0832Frac Date May 16 19 85

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires May 16, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>5K</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MX</u>	Fee: <u>754</u>
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Margaret J. Hassel  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. File  
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1) Date: July 11, 1983  
 2) Operator's Well No. 214  
 3) API Well No. 47 State 895 County 8821 Permit

DRILLING CONTRACTOR:

S & R Oil Corp.  
Rethany Beach, Delaware

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil XX / Gas XX /  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: 1185 Watershed: Hursley Brook  
 District: Lincoln County: Tyler Quadrangle: Paden Clay
- 6) WELL OPERATOR S & R Oil Corp.  
 Address P.O. Box 331  
Rethany Beach Delaware
- 7) OIL & GAS ROYALTY OWNER Dr. Stanley Patterson  
 Address Sisterville, W. Va.  
 Acreage 120
- 8) SURFACE OWNER Dr. Stanley Patterson  
 Address Sisterville, W. Va.  
 Acreage \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO:  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Bob Lottner  
 Address Middlebourne, W. Va.
- 11) DESIGNATED AGENT James F. Dean  
 Address P.O. Box 91  
Middlebourne, W. Va.
- 12) COAL OPERATOR None  
 Address \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper XXX / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 17) Estimated depth of completed well, 4100 feet
- 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>5 5/8</u>			<u>XX</u>		<u>263'</u>	<u>263'</u>	<u>150 surface</u>	Sizes
Coal									Depths set
Intermediate									Perforations:
Production	<u>4 1/2</u>		<u>10.5</u>			<u>3677'</u>	<u>3677'</u>	<u>225 skc.</u>	Top Bottom
Tubing									
Liners									

- 21) EXTRACTION RIGHTS  
 Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) used book 223 page 106
- 22) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_

Signed: \_\_\_\_\_  
 Its: Field Supervisor

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-005-0332-00 Date August 3 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires April 5, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.